

## Claims

1. A syringe for delivering flowable and/or highly viscous materials with a syringe tube, which has an outlet nozzle, a material container, is disposed therein, a handle, which is disposed at the end of the syringe tube opposite to the outlet nozzle, and a syringe piston, which can be moved through the handle into the syringe tube, wherein the handle (8) is connected by means of a thread (12) to the syringe tube (1) and the material container (5) has a closed lateral surface around the axis.

2. The syringe of claim 1, wherein one end of the material container (5) is disposed at the outlet nozzle (2) and a plug (6), which can be moved between the ends, is disposed at the opposite ends, the end, of the syringe piston (11), which can be moved into the syringe, being constructed to lie in contact with the plug (6).

3. The syringe of claim 2, wherein the lateral surface of the material container (5) around the axis is dimensionally stable.

4. The syringe of claim 3, wherein the ends of the material container (5) are constructed open.

5. The syringe of claim 1, wherein the material container (5) is formed from a flexible material and a plug (6), which can be moved in the syringe tube (1), is disposed at the end of the material container (5) facing the handle (8), the end of the syringe piston (11), which can be moved into the syringe, being constructed to lie in contact with the plug (6).

6. The syringe of one of the claims 1 to 5, wherein the external diameter of the material container (5) is about equal in size to the internal diameter of the syringe tube (1).

7. The syringe of one of the claims 1 to 6, wherein the syringe tube (1) and the outlet nozzle (2) are constructed in one piece.

8. The use of a syringe of claims 1 to 7 for delivering dental materials.

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FOOTNOTES